

# The Cloud Imaging Probe and in-situ measurements of mixed-phase clouds

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Knowledge for Tomorrow

- Manuel Moser
- Student (Physics) at Friedrich Alexander University Erlangen Nürnberg
- Master thesis at DLR (Supervisor: Christiane Voigt):

*“Characterization and calibration of optical array probes and airborne  
in-situ measurements of mixed-phase clouds”*

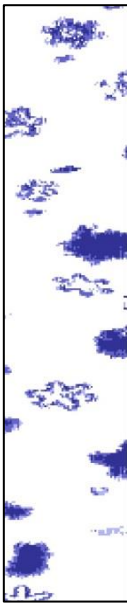
- Soon: PhD-Student at Johannes Gutenberg University of Mainz



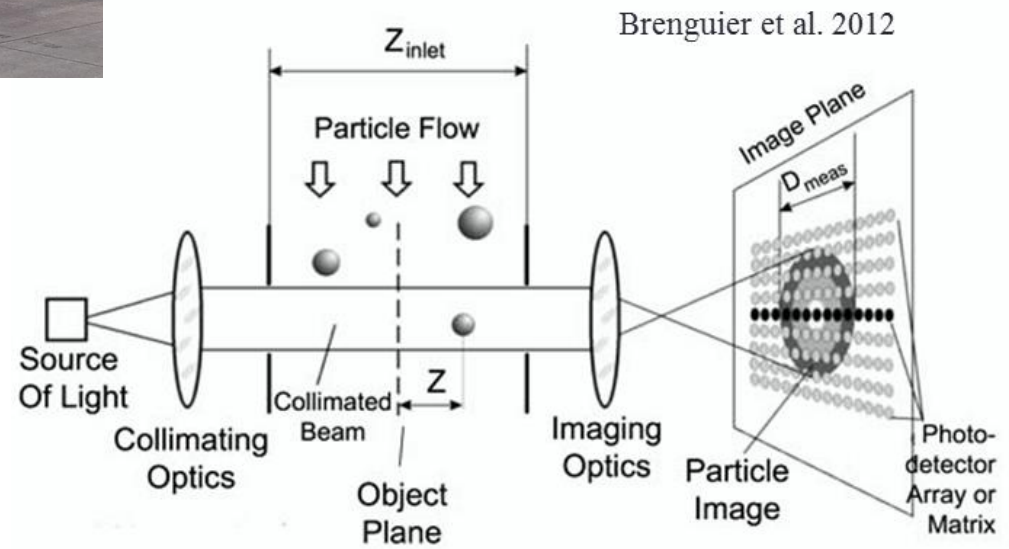
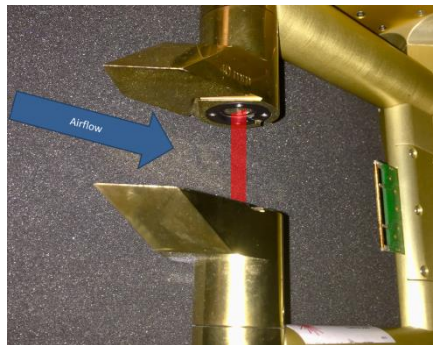
# The Cloud Imaging Probe (CIP)



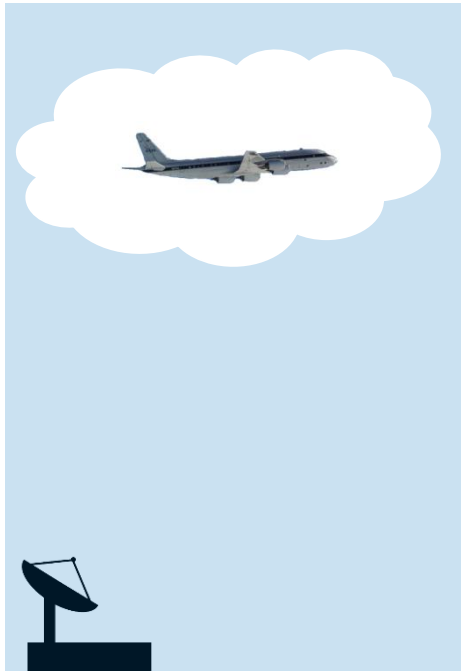
- „Scanning cloud particles“
- 64 x 15  $\mu\text{m}$  photodiodes
- Particle size: 15 – 960  $\mu\text{m}$



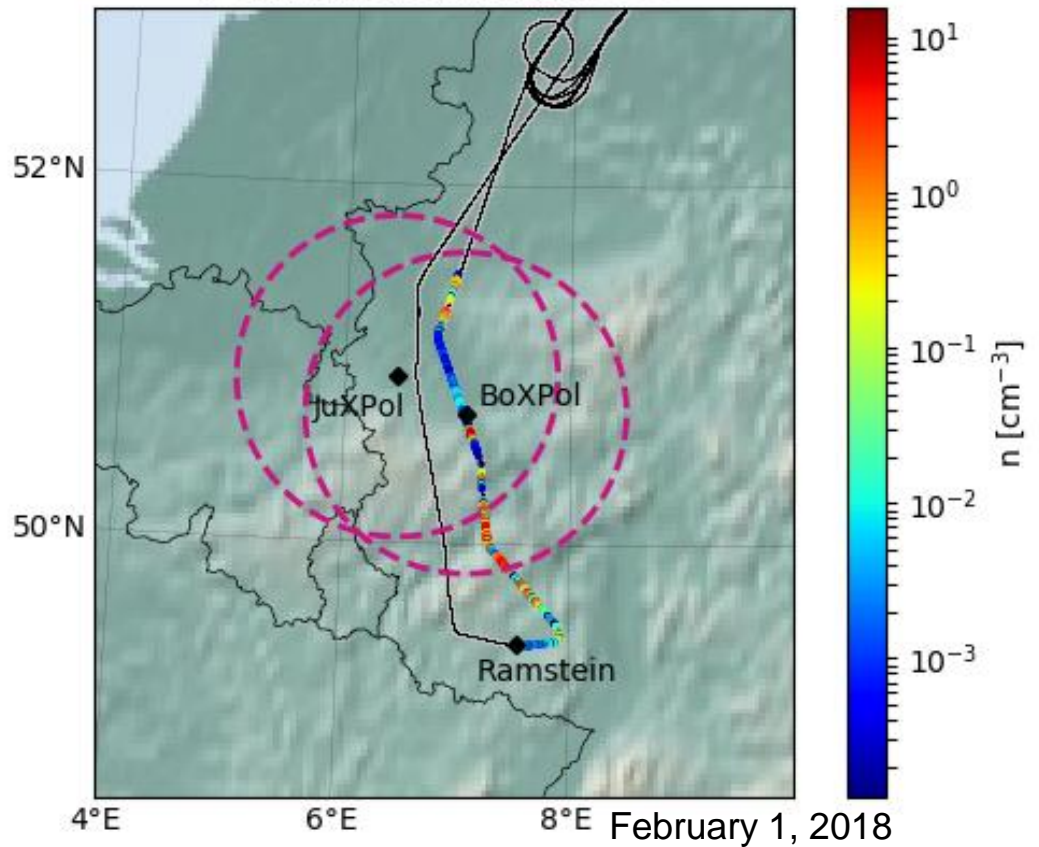
CIP mounted to aircraft



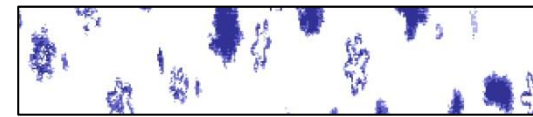
# Radar overflight during ND-MAX/ECLIF campaign



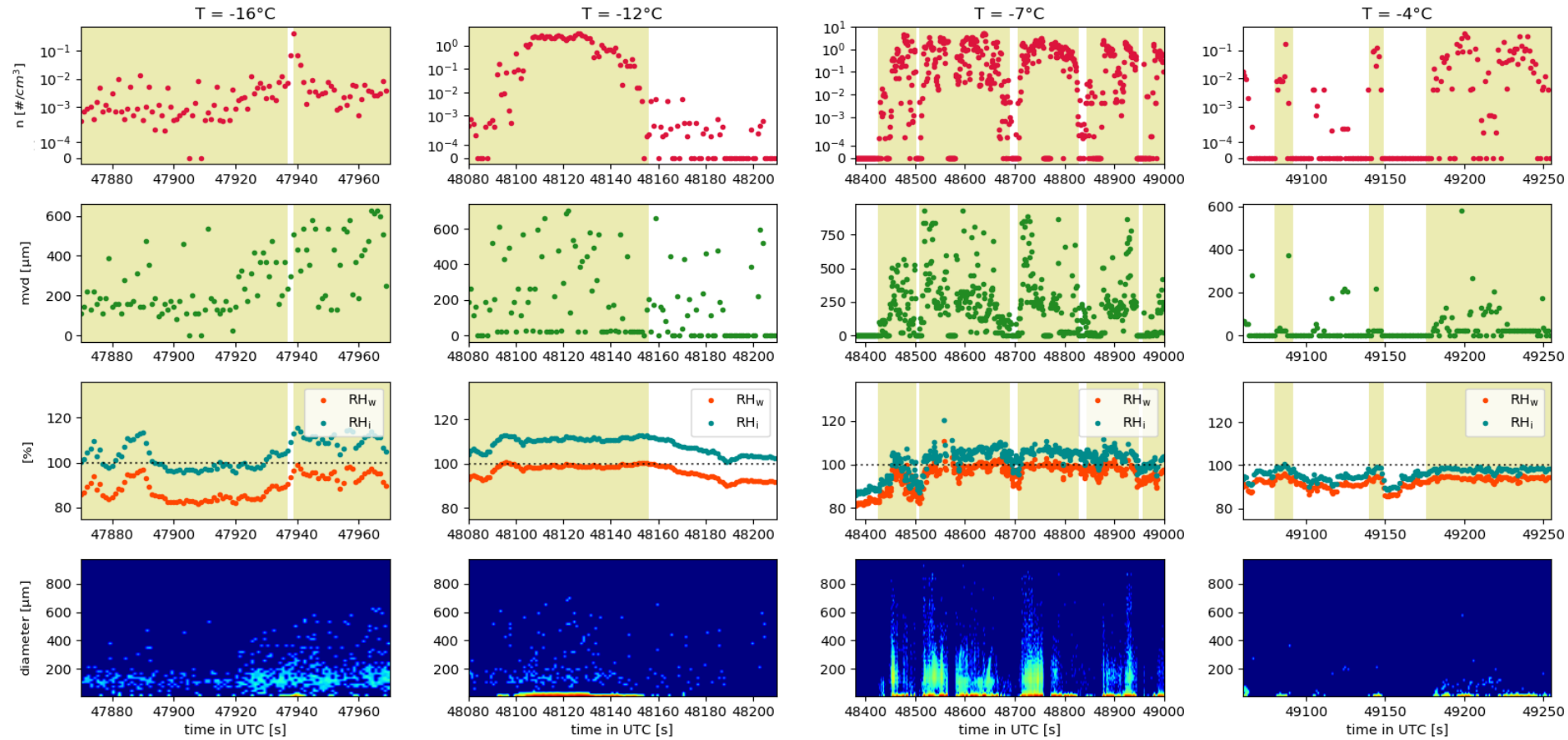
F8: flight track NASA DC-8







# Preliminary cloud data: February 1, 2018



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